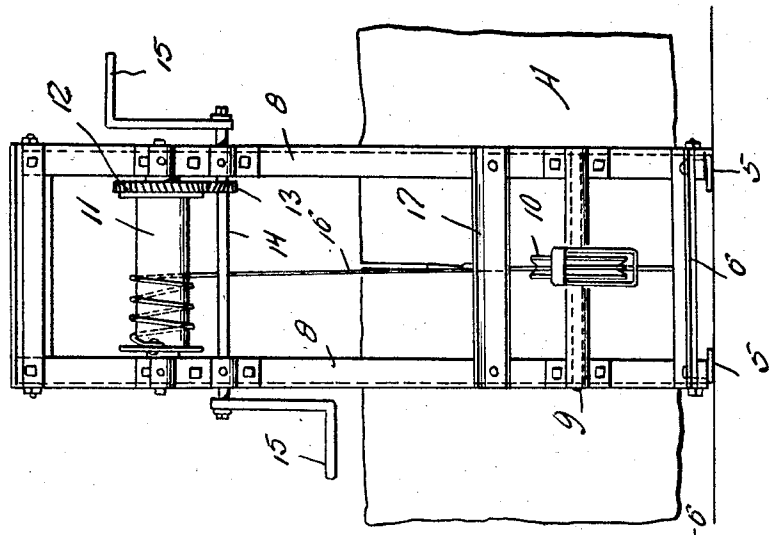
July 26, 1927. 1,636,812

R. W. DONOVAN

CUTTING DEVICE

Filed Jan. 18, 1927

Fig. 2.



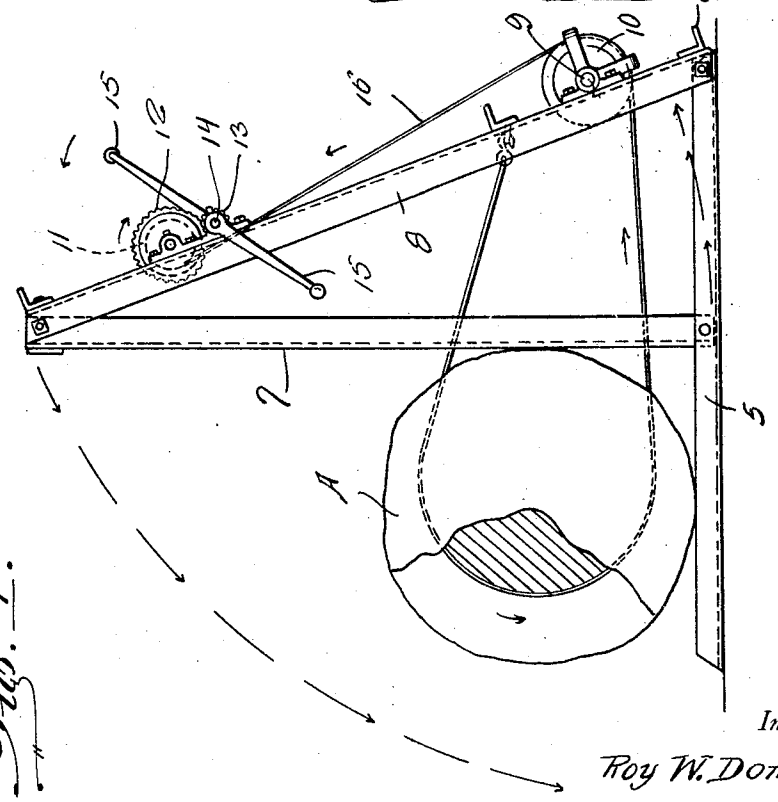


Fig. 1.

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UNITED STATES PATENT OFFICE.

ROY W. DONOVAN, OF KANSAS CITY, MISSOURI.

CUTTING DEVICE.

Application filed January 18, 1927. Serial No. 161,936.

This invention relates to new and useful improvements in cutting devices, and has for its primary object to provide such a device that is particularly adapted for use in the cutting of large pieces of asphalt, pitch or tar that is to be used in a melted condition for roofing purposes or for road work.

At the present time such asphalt, pitch or tar comes packed in barrels or drums that are knocked from the material, after which the material is broken up by axes, hammers, and the like.

The invention further aims to provide a device of this character wherein large blocks of the previously mentioned material may be quickly and easily cut into various sections of slice formation so as to enable the material to be properly placed within the melting kettle, and without any liability of losing any portion of the same.

With the foregoing and other objects in view as the nature of the invention will be better understood, the same comprises the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing wherein like reference characters indicate corresponding parts throughout both of the views:

Figure 1 is a side elevation of a cutting device constructed in accordance with the present invention, the same being shown as actually in use, and

Figure 2 is a front elevation thereof.

Now having particular reference to the drawing, my novel cutting device consists of a pair of spaced parallel angle bars 5—5 that will serve as runners whereby the device may be easily moved from place to place. These bars are interconnected at their forward ends by cross bar 6 and may be interconnected at other points if desired. Extending vertically from these bars 5—5 intermediate their ends is a pair of elongated vertical bars 7 also of angle construction to the upper ends of which are joined inclined bars 8—8 that are rigidly anchored at their lower ends to the forward ends of the bars 5—5. Journaled at its opposite ends within bearings upon the front faces of the inclined bars 8—8 adjacent their lower ends is a shaft 9 keyed to the center of which is a pulley 10, while suitably journaled between the bars 8—8 adjacent their upper ends is a cable drum 11, one end of which is provided with a gear 12 that has mesh with a smaller gear 13 upon a cross shaft 14. This shaft is also suitably journaled at its opposite ends within bearings at the front faces of the inclined bars 8—8, the opposite ends of this shaft extending through said bearings and being equipped with crank handles 15—15 whereby the shafts may be rotated. Secured at one end to this drum 11 is a wire or cable 16 of predetermined length which is extended downwardly and passed over the front of the pulley 10 and thence extended rearwardly and detachably connected to a cross bar 17 that traverses the inclined bars 8—8 directly above said pulley as clearly disclosed in both the figures.

In actual practice, a block of asphalt, pitch, or tar A is disposed upon the skid bars 5—5 in back of the vertical bars 7—7. The free end of the wire or cable 16 is then passed beneath this block of material and then over the same after which the cable is rigidly connected to the bar 17 as indicated by the dotted lines in Figure 1. The shaft 14 is thence rotated for winding the cable or wire 16 upon the drum and during this action the cable will be forced through the block of material as indicated in both of the figures.

It will thus be seen that I have provided a highly novel, simple, and efficient cutting device that is highly well adapted for all the purposes heretofore designated even though I have herein shown and described the invention as consisting of certain detail structural elements it is nevertheless to be understood that some changes may be made therein without effecting the spirit and scope of the appended claim.

Having thus described the invention, what I claim as new is:—

In a cutting device of the class described, a pair of spaced parallel co-extensive horizontal bars, a pair of vertical bars one rising from the intermediate portion of each horizontal bar to be perpendicular thereto, a pair of slanting bars rising from the ends of the horizontal bars, means for attaching the upper ends of the slanting bars to the upper ends of the vertical bars, a drum journaled between the upper portions of the slanting bars, a pulley, means for supporting the pulley between the lower portions of the slant-

ing bars, and an anchor on the slanting bars between the drum and the pulley, a cable having one end fixed to the anchor and trained over the pulley and windable about the drum whereby an article supported on the horizontal bars may be received in a loop formed with the wire and upon the winding of the wire on the drum said article will be drawn against the vertical bars and the wire drawn through the article to cut the same.

In testimony whereof I affix my signature.

ROY W. DONOVAN.